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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/525,447	03/14/2000	Young-Joon Song	K-090F	8438
7	590 07/31/2003			
Fleshner & Kim, LLP			EXAMINER	
14500 Avion Parkway Chantilly, VA 20151			LEE, CH	I НО А
			ART UNIT	PAPER NUMBER
			2663	2
			DATE MAILED: 07/31/2003	9

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

7/

	Application No.	Applicant(s)				
	09/525,447	SONG, YOUNG-JOON				
Office Action Summary	Examiner	Art Unit				
	Andrew Lee	2663				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet	with the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may within the statutory minimum of will apply and will expire SIX (6) Notes the application to become	y a reply be timely filed thirty (30) days will be considered timely. MONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 14.6	<u>March 2000</u> .					
2a) ☐ This action is FINAL . 2b) ☑ Th	is action is non-final.					
3) Since this application is in condition for allowards closed in accordance with the practice under Disposition of Claims						
4) Claim(s) 1-3 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers	·					
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on 14 March 2000 is/are: a	a)□ accepted or b)⊠ obj	ected to by the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priorapplication from the International Bu* See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).				
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
 a) The translation of the foreign language pro 15) Acknowledgment is made of a claim for domesting 	• •					
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6. 	5) L Notice	ew Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)				

Application/Control Number: 09/525,447

Art Unit: 2663

DETAILED ACTION

Drawings

1. The drawings are objected to because label fig. 13A is missing. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Tanaka U.S. Patent Number 5,533,010.

Re Claim 1, fig 4 teaches a correlation detector 156 (a frame unit) including a Shift register 301 for storing a sequence (column sequence) demodulated and inputted by slots (See fig. 5) for detecting frame synchronization for upward (master) and downward (slave) link channels; EXOR Circuit & Invertors 303 for converting a stored sequence according a reference spreading code series (a pattern characteristic); Adder 304 for adding the converted sequence by periods (slots) (See col. 6, lines 31-51); fig. 1 teaches s103 & s104 for performing a correlation process to provide switching radio channel (a designated code column) (See col. 4, lines 1-15).

Re Claim 2, refer to Claim 1.

Page 3

Application/Control Number: 09/525,447

Art Unit: 2663

Re Claim 3, refer to Claim 1, correlation detector 156 inherently includes a memory block for storing and converting the received code sequence, i.e., shift register.

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

U.S. Patent Number 5022047 teaches SS correlator;

U.S. Patent Number 5504781 teaches process for the recovery of data;

U.S. Patent Number 5898665 teaches coherent tracking of CDMA receiver;

U.S. Patent Number 5940433 teaches acquisition of spreading code;

U.S. Patent Number 6005903 teaches digital correlator.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew Lee whose telephone number is 703-305-1500. The examiner can normally be reached on Monday to Friday from 8:30AM to 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau Nguyen can be reached on 703-308-5340. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-

3900. ANDY LEE PATENT EXAMINER

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July 25, 2003